NLSSI Steering Committee and Industry Needs for Seismic R&D and Practical Applications for Economically Ensuring Nuclear Reactor Seismic Safety

October 7th and 8th, University at Buffalo

Objectives:

Day one: Present progress on NLSSI R&D at INL, tour University at Buffalo structural dynamics lab, and discuss future 1D geotechnical laminar box tests.

Day two: Present current R&D activities in the nuclear field that aim to provide best estimate seismic response numerically, and focus on minimizing the influence of beyond design basis earthquakes. Discuss how the use of risk information to quantify margins in existing and advanced reactors and reduce NPP construction cost. Industry representatives will also provide feedback on their needs in seismic R&D. Numerical commercial code vendors will participate, as the aim of current seismic R&D is to implement numerical modeling capabilities into these codes.

Attire: Business Casual

Andrew Whittaker, Justin Coleman, Chandu Bolisetti, Bob Spears, Bob Kennedy, Ian Stevenson, Steve McDuffie, John Richards, Ronaldo Szilard, Annie Kammerer, Allen Levin, Amit Varma, Abhinav Gupta, Jacobo Bielak, Greg Mertz, Farhang Ostadan, Mike Salmon, Mike Cohen, Bob Budnitz, Mohamed Talaat, Ibrahim Almufti, Francois Lancelot, Michael Constantinou, Anthony Tessari, Amjad Aref, M. (Siva) Sivaselvan, Kallol Sett

October 7th University at Buffalo

140 Ketter Hall, Department of Civil Engineering, University at Buffalo

8:00	Welcome to University at Buffalo and Introductions		
8:15	Introductions and Overview		
8:30	NLSSI Implementation at Second Soil Site		
10:00	Break		
10:20	NLSSI Numerical Challenges and Solutions and Implementation into SPRA		
11:50	Working Lunch		
12:50	Tour of University at Buffalo Structural Dynamics Laboratory Andrew Whittaker		
2:30	Hybrid Simulation in Earthquake Engineering		
3:00	Presentation of proposed 1D Geotechnical Laminar Box Test for Application in the Nuclear Industry Anthony Tessari, Andrew Whittaker, Justin Coleman,		
2:30	Interactive Discussion of How to Frame First Set of Geotechnical Laminar Box Tests at UBAndrew/Justin/Anthony		
4:30	Adjourn		
6:00	Dinner, home of Andrew Whittaker, 160 Viscount Drive, Williamsville, NY 14221		

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October 7th and 8th, University at Buffalo

October 8th University at Buffalo

140 Ketter Hall, Department of Civil Engineering, University at Buffalo

8:00	Purpose and Meeting ObjectivesA	and Justin
8:30	Industry/NRC Issues that Could be Resolved with Advanced Numerical Technological Advances, Presentations from Industry, EPRI, NRC, DO	
11:30	Lunch	
12:30	Regulator Gaps in Seismic Isolation Implementation	Annie Kammerer
1:15	SI Economics StudyJu	stin/John/Andrew
1:50	Piping Fragility R&D	Abhinav Gupta
2:20	NPP Seismic Robustness and use of Risk-Information in Design of Adv to Manage CostsAn	
3:00	Adjourn	